

LABORATORY REPORT

Prepared For: Burns & McDonnell
9400 Ward Parkway
Kansas City, MO 64114
Attention: Diana Marquez

Project: 62589/QAS

Sampled: 11/04/12
Received: 11/06/12
Revised: 11/16/12 13:38

NELAP #01109CA / AZ100001 California ELAP#2446 Arizona DHS#AZ0728 Nevada #AZ01030 ORELAP #AZ100001

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.

This entire report was reviewed and approved for release.

CASE NARRATIVE

LABORATORY ID

PVK0327-01
PVK0327-02
PVK0327-03
PVK0327-04

CLIENT ID

DP 132 W03/57-61
DP 132 W01/17-21
DP 132 W04/67-71
DP 134 W02/35-39

MATRIX

Water
Water
Water
Water

SAMPLE RECEIPT: Samples were received intact, at 2°C, on ice and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: No significant observations were made.

SUBCONTRACTED: No analyses were subcontracted to an outside laboratory.

ADDITIONAL INFORMATION: The original report was revised to include J flags per client request.

Reviewed By:



TestAmerica Phoenix

Linda Eshelman
Project Manager

Burns & McDonnell
9400 Ward Parkway
Kansas City, MO 64114
Attention: Diana Marquez

Project ID: 62589/QAS

Report Number: PVK0327

Sampled: 11/04/12

Received: 11/06/12

1,4-DIOXANE BY GC/MS (EPA 3520C/8270C MOD)

Analyte	Method	Batch	Reporting Limit	MDL	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PVK0327-01 (DP 132 W03/57-61 - Water)									
Reporting Units: ug/l									
1,4-Dioxane	EPA 8270C	12K0260	1.2	0.60	ND	1.18	11/7/2012	11/9/2012	E8
Surrogate: 1,4-Dioxane-d8 (14-125%)					76 %				
Surrogate: Nitrobenzene-d5 (27-143%)					90 %				
Sample ID: PVK0327-02 (DP 132 W01/17-21 - Water)									
Reporting Units: ug/l									
1,4-Dioxane	EPA 8270C	12K0260	1.5	0.77	ND	1.52	11/7/2012	11/9/2012	E8
Surrogate: 1,4-Dioxane-d8 (14-125%)					73 %				
Surrogate: Nitrobenzene-d5 (27-143%)					89 %				
Sample ID: PVK0327-03 (DP 132 W04/67-71 - Water)									
Reporting Units: ug/l									
1,4-Dioxane	EPA 8270C	12K0260	1.2	0.60	ND	1.18	11/7/2012	11/9/2012	E8
Surrogate: 1,4-Dioxane-d8 (14-125%)					77 %				
Surrogate: Nitrobenzene-d5 (27-143%)					92 %				
Sample ID: PVK0327-04 (DP 134 W02/35-39 - Water)									
Reporting Units: ug/l									
1,4-Dioxane	EPA 8270C	12K0260	1.3	0.65	ND	1.28	11/7/2012	11/9/2012	E8
Surrogate: 1,4-Dioxane-d8 (14-125%)					75 %				
Surrogate: Nitrobenzene-d5 (27-143%)					95 %				

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Project Manager

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METHOD BLANK/QC DATA

1,4-DIOXANE BY GC/MS (EPA 3520C/8270C MOD)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 12K0260 Extracted: 11/07/12										
Blank Analyzed: 11/09/2012 (12K0260-BLK1)										
1,4-Dioxane	ND	1.0	ug/l							
Surrogate: 1,4-Dioxane-d8	15.8		ug/l	20.0		79	14-125			
Surrogate: Nitrobenzene-d5	17.5		ug/l	20.0		88	27-143			
LCS Analyzed: 11/09/2012 (12K0260-BS1)										
1,4-Dioxane	19.0	1.0	ug/l	20.0		95	85-116			Q8
Surrogate: 1,4-Dioxane-d8	16.4		ug/l	20.0		82	23-132			
Surrogate: Nitrobenzene-d5	18.5		ug/l	20.0		93	28-150			
LCS Dup Analyzed: 11/09/2012 (12K0260-BSD1)										
1,4-Dioxane	19.4	1.0	ug/l	20.0		97	85-116	2	20	Q8
Surrogate: 1,4-Dioxane-d8	15.6		ug/l	20.0		78	23-132			
Surrogate: Nitrobenzene-d5	17.8		ug/l	20.0		89	28-150			

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DATA QUALIFIERS AND DEFINITIONS

D4	Minimum Reporting Limit (MRL) adjusted to reflect sample amount received and analyzed.
E8	Analyte reported to the MDL per project specification. Target analyte was not detected in the sample.
Q8	Insufficient sample received to meet method QC requirements. Batch QC requirements satisfy ADEQ policies 0154.000 and 0155.000.
ND	Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
RPD	Relative Percent Difference

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THE LEADER IN ENVIRONMENTAL TESTING

TAL-0013-550 (10/10)

[] Phoenix - 4625 E. Cotton Center Blvd., Suite 189, Phoenix, AZ 85040 (602) 437-3340 FAX (602) 454-9303
 [] Tucson - 1870 W. Prince Road, Suite 59, Tucson, AZ 85705 (520) 807-3801 FAX (520) 807-3803
 [] Las Vegas - 6000 S Eastern Ave., Suite 5E, Las Vegas, NV 89119 (702) 429-1264

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Client Name/Address: <u>QAS</u>			Project/PO Number: <u>62589</u>				Analysis Required										
Project Manager: <u>Diana Marquez</u>			Phone Number: <u>916-333-9400</u>				1,4-Dioxane										
Sampler: <u>Sam Woodland</u>			Fax Number:														
Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date	Sampling Time	Preservatives											Special Instructions
DP132 W03/57-61	Liquid	Amber	2	11-4-12	1345	None	x						-01				
DP132 W01/17-21	Liquid	Amber	2	11-4-12	1355	None	x						-02				
DP132 W04/67-71	Liquid	Amber	2	11-4-12	1440	None	x						-03				
DP134 W02/35-39	Liquid	Amber	2	11-4-12	1645	None	x						-04				
Temp Blank	Liquid	Plastic	1	11-4-12	1345												Temp Blank
Relinquished By: <u>[Signature]</u>			Date/Time: <u>11/5/2012 1400</u>		Received By:			Date/Time:			Turnaround Time: (Check) same day _____ 72 hours _____ 24 hours _____ 5 days _____ 48 hours _____ normal _____						
Relinquished By:			Date/Time:		Received By:			Date/Time:									
Relinquished By:			Date/Time:		Received in Lab By: <u>[Signature] CBR</u>			Date/Time: <u>11/6/12 09:00</u>			Sample Integrity: (Check) intact <u>X</u> on ice <u>5</u>						

Note: By relinquishing samples to TestAmerica, client agrees to pay for the services requested on this chain of custody form and any additional analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 30 days.

Temp 2.1°C
CS